

3738

PTO/SB/21 (05-03)

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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/012,194
	Filing Date	December 6, 2001
	First Named Inventor	Manuela Martins-Green
	Group Art Unit	3738
	Examiner Name	Unknown
Total Number of Pages in This Submission	Attorney Docket Number	407E-914500US

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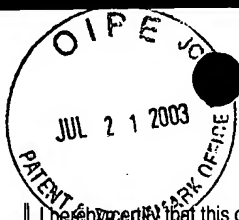
Firm or Individual name	Irene Pleasure, Reg. No. 45,506, Quine Intellectual Property Law Group, P.C.		
Signature			
Date	July 16, 2003		

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Signature		Date	July 16, 2003



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QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

By

Amelia Groth

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#6

Attorney Docket No. 407E-914500US  
Client Ref. No. 2000-422-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Manuela Martins-Green, et al.

Application No.: 10/012,194

Filed: December 6, 2001

For: ENGINEERED ANIMAL TISSUE

Examiner: Unassigned

Art Unit: 3738

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97 and  
§ 1.98

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Sir:

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The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Manuela Martins-Green, et al.  
Application No.: 10/012,194  
Page 2

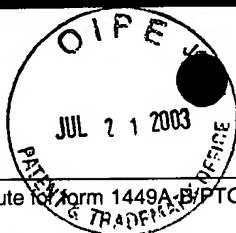
Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action on the merits per 37 CFR 1.97(b)(3). However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Irene Pleasure", written in black ink.

Irene Pleasure, J.D., Ph.D.  
Reg. No. 45,506

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.  
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Substitute for Form 1449A-B PTO  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)	Complete if Known	
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	Filing Date	December 6, 2001
	First Named Inventor	Manuela Martins-Green
	Group Art Unit	3738
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	Attorney Docket Number	407E-914500US
Date Submitted	July 16, 2003	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
	AA	5,512,475		Naughton, et al.	04-30-1996	
	AB	5,863,531		Naughton, et al.	01-26-1999	
	AC	5,902,741		Purchio, et al.	05-11-1999	
	AD	5,962,325		Naughton, et al.	10-05-1999	
	AE	6,121,042		Peterson, et al.	09-19-2000	
	AF	6,372,494		Naughton, et al.	04-16-2002	

	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
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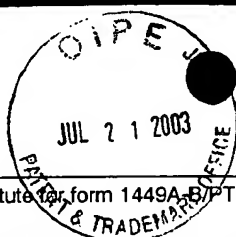
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	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	AG	Arenberg et al. (1997) "The role of CXC chemokines in the regulation of angiogenesis in non-small cell lung cancer." <i>J. Leuk. Biol.</i> , 62:554-562.	
	AH	Arenberg et al. (1997) "In vitro and in vivo systems to assess role of C-X-C chemokines in regulation of angiogenesis." <i>Meth. Enzymol.</i> , 288:190-220	
	AI	Arenberg et al. (1998) "Epithelial-neutrophil activating peptide (ENA-78) is an important angiogenic factor in non-small cell lung cancer." <i>J Clin Invest</i> 102:465-472.	
	AJ	Baggiolini et al. (1994) "Interleukin-8 and related chemotactic cytokines - CXC and CC chemokines." <i>Adv Immunol</i> 55, 97-179.	
	AK	Baggiolini et al. (1997) "Human chemokines: an update." <i>Annual Review of Immunology</i> , 15:675-705.	
	AL	Balkwill, F. (1998) "The molecular and cellular biology of the chemokines." <i>J Viral Hepatitis</i> 5:1-14.	
Examiner Signature			Date Considered

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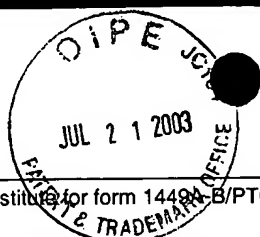
AM	✓	<b>Baluk, et al.</b> (1997) "Endothelial gaps: Time course of formation and closure in inflamed venules of rats." <i>Am. J. Physiol</i> 272: L155-L170.	
AN		<b>Baluk, et al.</b> (1998) "Endothelial gaps and adherent leukocytes in allergen-induced early- and late-phase plasma leakage in rat airways." <i>Am J Pathol</i> 152: 1463-1476	
AO		<b>Bartlett et al.</b> (1995) "Comparative analysis of the ability of leucocytes, endothelial cells and platelets to degrade the subendothelial basement membrane: evidence for cytokine dependence and detection of a novel sulfatase." <i>Immunol Cell Biol</i> 73:113-24.	
AP		<b>Beck and D'Amore</b> (1997) "Vascular development: cellular and molecular regulation." <i>FASEB J</i> , 11:365-73.	
AQ		<b>Belperio et al.</b> (2000) "CXC chemokines in angiogenesis" <i>J. of Leukocyte Biology</i> , 68:1-8.	
AR		<b>Bergers et al.</b> (2000) "Matrix metalloproteinase-9 triggers the angiogenic switch during carcinogenesis." <i>Nature Cell Biology</i> 2:737-744.	
AS		<b>Berthod and Damour</b> (1997) "In vitro reconstructed skin models for wound coverage in deep burns" <i>Br. J. Dermatol.</i> 136:809-816	
AT		<b>Black, et al.</b> (1998) "In vitro reconstruction of a human capillary-like network in a tissue-engineered skin equivalent." <i>FASEB Journal</i> 12:1331-1340	
AU		<b>Boyce, et al.</b> (1995) "Topical Nutrients Promote Engraftment and Inhibit Wound Contraction of Cultured Skin Substitutes in Athymic Mice" <i>J. Invest. Dermatol.</i> 104: 345-349	
AV		<b>Brooks, et al.</b> (1996) "Localization of matrix metalloproteinase MMP-2 to the surface of invasive cells by interaction with integrin $\alpha\beta 3$ ." <i>Cell</i> , 85:683-93.	
AW		<b>Carmeliet and Jain</b> (2000) "Angiogenesis in cancer and other diseases." <i>Nature</i> , 407:249-57.	
AX		<b>Corada et al.</b> (1999) "Vascular endothelial-cadherin is an important determinant of microvascular integrity in vivo." <i>Proc. Nat'l. Acad. Sci. USA</i> , 96:9815-9820.	
AY		<b>Corral et al.</b> (1999) "Vascular endothelial growth factor is more important than basic fibroblastic growth factor during ischemic wound healing." <i>Archives of Surgery</i> 134:200-205.	
AZ		<b>Coussens et al.</b> (2000) "MMP-9 supplied by bone marrow-derived cells contributes to skin carcinogenesis" <i>Cell</i> , 103(3):481-490.	
BA		<b>Davis et al.</b> (2001) "Matrix metalloproteinase-1 and -9 activation by plasmin regulates a novel endothelial cell-mediated mechanism of collagen gel contraction and capillary tube regression in three-dimensional collagen matrices." <i>Journal of Cell Science</i> , 114:917-30	
BB	✓	<b>Dejana et al.</b> (2000) "The molecular organization of endothelial junctions and their functional role in vascular morphogenesis and permeability." <i>International Journal of Developmental Biology</i> , 44:743-8.	

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BC	Dunlevy and Couchman (1995) "Interleukin-8 induces motile behavior and loss of focal adhesions in primary fibroblasts." <i>Journal of Cell Science</i> , 108:311-21.
BD	Eliceiri and Cheresch (2000) "Role of $\alpha$ v integrins during angiogenesis." <i>Cancer Journal from Scientific American</i> , 6 Suppl 3:S245-S249.
BE	Engelhardt et al. (1998) "Chemokines IL-8, GRO $\alpha$ , MCP-1, IP-10, and Mig are sequentially and differentially expressed during phase-specific infiltration of leukocyte subsets in human wound healing." <i>American Journal of Pathology</i> , 153:1849-60.
BF	Esser et al. (1998) "Vascular endothelial growth factor induces VE-cadherin tyrosine phosphorylation in endothelial cells." <i>J. Cell Science</i> , 111:1853-65.
BG	Feugate and Martins-Green (2002). "The CXC chemokine cCAF stimulates differentiation of fibroblasts into myofibroblasts and accelerates wound closure." <i>J. Cell Biol.</i> 156:161-172.
BH	Friedlander et al. (1995) "Definition of two angiogenic pathways by distinct $\alpha$ v integrins." <i>Science</i> 270:1500-1502.
BI	Garcia et al. (2000) "Diperoxovanadate alters endothelial cell focal contacts and barrier function: role of tyrosine phosphorylation." <i>J. App. Physiol.</i> 89:2333-2343.
BJ	Ghirnikar et al. (1998) "Inflammation in traumatic brain injury: role of cytokines and chemokines." <i>Neurochem Res</i> 23(3):329-340.
BK	Grant and Kleinman (1997) "Regulation of capillary formation by laminin and other components of the extracellular matrix." in <i>Regulation of Angiogenesis</i> , eds Goldberg and Rosen, pp. 317-333, Birkhäuser Verlag, Basel, Switzerland.
BL	Gumbiner, B.M. (2000) "Regulation of cadherin adhesive activity." <i>Journal of Cell Biology</i> , 148:399-403.
BM	Haas and Madri (1999) "Extracellular matrix-driven matrix metalloproteinase production in endothelial cells: implications for angiogenesis." <i>Trends Cardiovasc Med</i> 9:70-77.
BN	Haas et al. (1998) "Three-dimensional type I collagen lattices induce coordinate expression of matrix metalloproteinases MT1-MMP and MMP-2 in microvascular endothelial cells." <i>J. Biol. Chem.</i> 273:3604-3610.
BO	Han et al. (2001) "Transforming growth factor- $\beta$ - and tumor necrosis factor- $\alpha$ - mediated induction and proteolytic activation of MMP-9 in human skin." <i>J Biol. Chem.</i> 276:22341-22350.
BP	Hanahan (1997) "Signaling vascular morphogenesis and maintenance." <i>Science</i> 277:48-50.
BQ	Hiraoka et al. (1998) "Matrix metalloproteinases regulate neovascularization by acting as pericellular fibrinolysins." <i>Cell</i> 95:365-377.
BR	Howard et al. (1996) "Chemokines: progress toward identifying molecular targets for therapeutic agents." <i>Trends in Biotechnology</i> , 14:46-51.

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(Modified) PTO/SB/08A-B (10-96)  
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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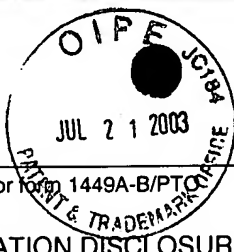
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BS	✓	Ilan et al. (1998) "Distinct signal transduction pathways are utilized during the tube formation and survival phases of in vitro angiogenesis." <i>J Cell Sci</i> 111:3621-31.	
BT		Ilan et al. (2000) "Platelet-endothelial cell adhesion molecule-1 (CD31), a scaffolding molecule for selected catenin family members whose binding is mediated by different tyrosine and serine/threonine phosphorylation." <i>Journal of Biological Chemistry</i> , 275:21435-43.	
BU	✓	Keane and Strieter (1999) "The role of CXC chemokines in the regulation of angiogenesis." <i>Chemical Immunology</i> , 72:86-101.	
BV	✓	Kim et al. (2000) "Regulation of integrin $\alpha_v\beta_3$ -mediated endothelial cell migration and angiogenesis by integrin $\alpha_5\beta_1$ and protein kinase A." <i>J Biol Chem</i> , 275:33920-8.	
BW	✓	Kim et al. (2000) "Regulation of angiogenesis in vivo by ligation of integrin $\alpha_5\beta_1$ with the central cell binding domain of fibronectin." <i>Amer. J. Pathology</i> 156:1345-1362.	
BX	✓	Kumar et al. (1998) "Regulation of distinct steps of angiogenesis by different angiogenic molecules." <i>Int. J. Oncol.</i> 12:749-757.	
BY	✓	Lampugnani et al. (1995) "The molecular organization of endothelial cell to cell junctions: differential association of plakoglobin, $\beta$ -catenin, and $\alpha$ -catenin with vascular endothelial cadherin (VE-cadherin)." <i>J. Cell Biol.</i> 129:203-217.	
BZ	✓	Legrand et al. (2001) "uPA/plasmin system-mediated MMP-9 activation is implicated in bronchial epithelial cell migration." <i>Experimental Cell Research</i> , 264:326-36.	
CA	✓	Li and Martins-Green (2001) "Molecular mechanisms by which IL-8 stimulates initiation of angiogenesis." <i>Mol. Biol. of the Cell. Suppl.</i> 12: Abstract 1466.	
CB		Li and Martins-Green (2001) "Development and Characterization of a 3D co-Culture System that Mimics Human Skin." <i>Mol. Biol. of the Cell. Suppl.</i> 12: Abstract 2833.	
CC	✓	Lin et al. (2000) "Human mast cells transmigrate through human umbilical vein endothelial monolayers and selectively produce IL-8 in response to stromal cell-derived factor-1 $\alpha$ ." <i>J. Immunol.</i> , 165:211-220.	
CD	✓	Lin et al. (2001) "SDF-1 induces IL-8 production and transendothelial migration of human cord blood-derived mast cells." <i>Internat'l. Archives Allergy and Immunology</i> , 124:142-145.	
CE		Madri and Williams (1983) "Capillary endothelial cell cultures: phenotypic modulation by matrix components." <i>J Cell Biol</i> 97:153-165.	
CF	✓	Martin-Padura et al. (1998) "Junctional adhesion molecule, a novel member of the immunoglobulin superfamily that distributes at intercellular junctions and modulates transmigration." <i>J. Cell Biol</i> 142: 117-127.	
CG	✓	Martins-Green (2000) "Dynamics of Cell-ECM interactions with implications for Tissue Engineering." In <i>Principles of Tissue Engineering</i> . pp 23-46 2nd Edition, Eds. R.P. Lanza, R. Langer and W.L. Chick. Academic Press/R.G. Landes Co., Austin, Texas.	

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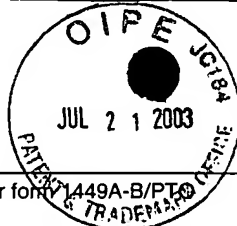
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CH	Martins-Green and Feugate (1998) "The 9E3/CEF4 gene product is a chemotactic and angiogenic factor that can initiate the wound healing cascade <i>in vivo</i> ." <i>Cytokine</i> 10(7):522-535.
CI	Martins-Green and Hanafusa (1997) "The 9E3/CEF4 gene and its product the chicken Chemotactic and Angiogenic Factor (cCAF): potential roles in wound healing and tumor development." <i>Cytokines and Growth Factors</i> 8(3): 221-232.
CJ	Martins-Green and Kelly (1998) "The chicken Chemotactic and Angiogenic Factor (9E3 Gene Product): Its angiogenic properties reside in the C-terminus of the molecule." <i>Cytokine</i> 10(11):819-829.
CK	Martins-Green et al. (1991) " Wound-factor-induced and cell cycle phase-dependent expression of 9E3/CEF4, the avian <i>gro</i> gene." <i>Cell Regulation</i> 2:739-752.
CL	Martins-Green et al. (1996) "The 9E3/CEF4 Cytokine: Kinetics of secretion, processing by plasmin, and interaction with ECM." <i>Cytokine</i> 8(6): 448-459.
CM	McCawley and Matrisian (2001) "Matrix metalloproteinases: they're not just for matrix anymore!" <i>Current Opinion in Cell Biology</i> , 13:534-40.
CN	Melkonian, et al. (2000) "Normal Patterns of Angiogenesis and Extracellular Matrix Deposition in Chick Chorioallantoic Membranes are Disrupted by Mainstream and Sidestream Cigarette Smoke." <i>Toxicology and Applied Pharmacology</i> 163:26-37.
CO	Mignatti and Rifkin (1996) "Plasminogen activators and matrix metalloproteinases in angiogenesis." <i>Enzyme and Protein</i> 49:117-137.
CP	Montesano and Orci (1985) "Tumor-promoting phorbol esters induce angiogenesis <i>in vitro</i> ." <i>Cell</i> 42:469-477.
CQ	Montesano et al. (1983) "In vitro rapid organization of endothelial cells into capillary-like networks is promoted by collagen matrices." <i>J. Cell Biol.</i> 97:1648-1652.
CR	Moore et al. (1998) "Tumor angiogenesis is regulated by CXC chemokines." <i>J Lab Clinical Med</i> 132:97-103.
CS	Murphy and Gavrilovic (1999) "Proteolysis and cell migration: creating a path?" <i>Current Opinion in Cell Biology</i> , 11:614-21.
CT	Newman, P.J. (1999). "Switched at birth: a new family for PECAM-1." <i>J. Clinical Inv.</i> 103:5-9.
CU	Raza and Cornelius (2000) "Matrix metalloproteinases: pro- and anti-angiogenic activities." <i>Journal of Investigative Dermatology: Symposium Proceedings</i> , 5:47-54.
CV	Roberts and Palade (1995) "Increased microvascular permeability and endothelial fenestration induced by vascular endothelial growth factor." <i>J Cell Science</i> 108:2369-2379.
CW	Rottman, J.B. (1999) "Key role of chemokines and chemokine receptors in inflammation, immunity, neoplasia, and infectious disease." <i>Veterinary Pathology</i> , 36:357-67.

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CX	Rupp and Little (2001) "Integrins in vascular development." <i>Circulation Research</i> 89:566-572.	
CY	Sanderson, R.D. (2001) "Heparan sulfate proteoglycans in invasion and metastasis." <i>Seminars in Cell and Developmental Biology</i> , 12:89-98.	
CZ	Sheibani et al. (2000) "Differential modulation of cadherin-mediated cell-cell adhesion by platelet endothelial cell adhesion molecule-1 isoforms through activation of extracellular regulated kinases." <i>Molecular Biology of the Cell</i> , 11:2793-802.	
DA	Shin, et al. (2001) "Expression of EphrinB2 Identifies a Stable Genetic Difference Between Arterial and Venous Vascular Smooth Muscle as Well as Endothelial Cells, and Marks Subsets of Microvessels at Sites of Adult Neovascularization" <i>Developmental Biology</i> 230:139-150.	
DB	Strieter et al. (1995) "The role of CXC chemokines as regulators of angiogenesis." <i>Shock</i> , 4:155-60.	
DC	Strieter et al. (1995) "Role of C-X-C chemokines as regulators of angiogenesis in lung cancer." <i>J. Leukocyte Biology</i> , 57:752-62.	
DD	Thurston (1996) "Permeability-related changes revealed at endothelial cell borders in inflamed venules by lectin binding." <i>Am. J. Physiol.</i> 271:H2547-H2562.	
DE	Thurston et al. (1999) "Leakage-resistant blood vessels in mice transgenically overexpressing angiopoetin-1." <i>Science</i> 286:2511-2514.	
DF	Tsukamoto and Nigam (1999) "Cell-cell dissociation upon epithelial cell scattering requires a step mediated by the proteasome." <i>J. Biol. Chem.</i> 274:24579-24584.	
DG	van Hinsbergh et al. (1997) "Role of fibrin and plasminogen activators in repair-associated angiogenesis: <i>In vitro</i> studies with human endothelial cells." In <i>Regulation of Angiogenesis</i> (Goldberg, ID, and Rosen, EM, eds.) pp 391-411, Birkhäuser Verlag, Basel Switzerland.	
DH	Vestweber, D. (2000) "Molecular mechanisms that control endothelial cell contacts." <i>J Pathology</i> , 190:281-91.	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.